

**BY ORDER OF THE COMMANDER
919TH SPECIAL OPERATIONS WING**

**919TH SPECIAL OPERATIONS WING
INSTRUCTION 91-201**



6 OCTOBER 2014

Safety

**TRAINING AND EXERCISE EXPLOSIVES
SAFETY**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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(Lt Col Douglas Bartz)

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This instruction implements Air Force Policy Directive (AFPD) 91-2, *Safety Programs*. This instruction extends the guidance of Air Force Manual (AFMAN) 91-201, *Explosive Safety Standards*, AFMAN 91-201, Air Force Reserve Command (AFRC) Supplement (SUP) 1, *Explosive Safety Standards* and Air Force Instruction (AFI) 91-202, *The US Air Force Mishap Prevention Program*, Chapter 10. This instruction provides guidance and establishes procedures to promote safe use of exercise and training explosives including blank ammunition. It applies to all units assigned to the 919th Special Operations Wing (919 SOW). This instruction outlines Exercise and Training Explosives Safety for the 919 SOW. Its purpose is to prevent mishaps with explosives. The instruction is written with local training in mind, but safety principles outlined herein also apply to off base training sites as long as they do not conflict with host base requirements. This instruction is to be used in conjunction with applicable higher headquarters directives, Technical Orders (TO) and AFMANs. The absence of safety requirements in any directive does not necessarily indicate that safeguards are not needed. Take prompt action to control any hazards utilizing risk management procedures. This instruction includes an outline for completing the 919 SOW Form 13, *Specific Task Instruction Form* (STIF), and an outline for locally written explosives Operating Instructions (OI). STIFs and OIs are required for explosives operations. STIFs require certification by the certifying official, approval by the Squadron Commander (CC) or equivalent and coordination with the Weapons Safety Office (SEW). Explosives OIs require approval by the Squadron CC or equivalent and coordination with the SEW. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the Air Force (AF) Form 847, *Recommendation for Change of*

Publication; route AF Forms 847 from the field through the appropriate functional chain of command. Requests for waivers must be submitted through chain of command to the OPR listed above for consideration and approval. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force.

SUMMARY OF CHANGES

This document has been substantially revised and must be completely reviewed. Major changes include the following: the explosives safety monitor program has been removed. The title has been changed from “The Explosives Safety Monitor Program for Field Training Exercises” to “Training and Exercise Explosives Safety”. A requirement for the Exercise Team Chief to prepare a risk assessment and comprehensive list of explosives has been added. The requirements higher headquarters (HHQ) personnel must comply with during transportation of explosives has been added. BLANK AMMUNITION OPERATING SAFETY has been restructured and updated to conform to the requirements in AFMAN 91-201_AFRCSUP1. The 919 SOW Policy Letter dated 28 Feb 2005 with the OUTLINE FOR LOCALLY WRITTEN EXPLOSIVES OPERATING INSTRUCTIONS has been added.

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1. General:

1.1. Explosive devices, signals and blank ammunition are often employed to provide realism during exercises and training. The use of explosives creates a potential for injury if safety precautions are not strictly followed.

1.2. A copy of this instruction will be readily available at all times during transportation, handling and operation of the explosives.

2. Training and Certification:

2.1. Initial training with certification will be on file prior to handling or activating munitions during exercises other than blank ammunition. Recurring recertification and refresher training must be conducted within a 15 month interval and must be completed no later than the last day of the 15th month since last trained.

2.2. Training must provide hands-on experience operating types of munitions individuals will use during exercises. Training must be in accordance with AFMAN 91-201_AFRCSUP. Trainees must learn hazards of the munitions, and safe operating procedures.

2.3. Trainers for exercise munitions must be originally trained and certified by Explosive Ordnance Disposal (EOD) IAW AFMAN 91-201 paragraph 7.26.2 before handling or training others in use of exercise munitions.

2.4. It is the responsibility of the using organizations to request training and maintain training records. Contact designated wing trainers to obtain training on applicable munitions. Organizations being trained normally provide their own munitions.

2.5. Upon completion of initial training, personnel are considered to be qualified. They are authorized to activate only those types of munitions they were trained on. Personnel who become overdue on annual training will not handle munitions during any exercises until annual training is accomplished and recertification obtained.

3. Exercise Explosives Safety Requirements:

3.1. The Exercise Team Chief will prepare a risk assessment and comprehensive list of explosives detailing the National Stock Number (NSN), Hazard Class and Division (HC/D), and explosives weights authorized for use in the exercise and a detailed list of locations where munitions will be deployed. Include 919 SOW SE in the planning. This assessment must meet the requirements of AFMAN 91-201, covering training and exercise plans involving explosives. Provide copies to the 919 SOW/SE.

3.2. Exercise planners must expose the minimum number of personnel to the smallest quantity of explosives for the shortest length of time practical.

3.3. At least two trained and qualified personnel will be assigned to exercises requiring training munitions. They will work in pairs while operating munitions other than blank ammunition.

3.4. Use the Exercise Planning List (see [Attachment 7](#)) to plan explosive safety considerations during exercises.

3.5. Only the munitions items listed in this instruction are authorized for use by unit members during exercises. Contact the 919 SOW/SE to request exceptions.

3.6. Unauthorized use or experimentation with explosives is extremely dangerous and is prohibited. This includes modifying and disassembling live or dud items.

3.7. Note the location of duds and keep personnel a safe distance from duds, and notify EOD of location. ONLY EOD personnel will handle duds. Personnel shall be assigned to control access to the dud location until EOD arrives.

3.8. Equipment needed for exercises will depend upon the types of munitions to be used. (Reference AFMAN 91-201 for equipment requirements). Common equipment is leather gloves, wooden stakes, hammer, nails and staples, gas mask MCU2/P, radio, and red tape (surveyors flagging ribbon NSN 9905001949698).

3.9. The Exercise Team Chief will inform Eglin security police, closest fire department, Command Post (CP) and 919 SOW/SE of exercise time, location and duration.

3.10. The exercise supervisor will ensure completion of a weapons/explosives safety briefing before the exercise. Minimum items to be briefed are:

3.10.1. Do not handle or touch any munitions item except aircrew survival signals or blank ammunition issued to you.

3.10.2. Inform the exercise supervisor if you see any munitions item lying about.

3.10.3. Standard firearms handling safety procedures for personnel who will be issued weapons.

3.10.4. The blank ammunition operating safety guidance in paragraph 4 must be given to personnel who will be issued blanks.

3.11. Issue necessary blank ammunition to trainees after trainees have received their weapons safety briefing.

3.12. Personnel who are armed with live ammunition for resource protection purposes will not otherwise participate in the exercise. When possible, live ammunition will not be the same caliber as blank ammunition used in the exercise. Extreme caution will be used if mission dictates same caliber for resource protection, the CC will ensure this concern is covered in the risk acceptance.

4. Blank AMMUNITION Operating Safety:

4.1. Responsibilities.

4.1.1. Each CC, or member designated by the Squadron CC, is responsible for ensuring live ammunition is not introduced into a training environment where live and blank ammunition could be commingled or mistaken for each other.

4.1.2. The Munitions Accountability Systems Officer (MASO) is responsible for ensuring that customers receive the proper blank ammunition requested.

4.1.3. The senior munitions inspector is responsible for ensuring that all blank ammunition is visually inspected to verify that no live ammunition has been commingled with blank ammunition.

4.1.4. Users are directly responsible for the control of ammunition issued to them for any purpose. Accountability of assets, to include expenditures, will be validated upon issue and turn-in of the assets at the beginning and end of each shift or whenever required to eliminate a discrepancy.

4.1.5. Personnel using blank ammunition must be familiar with all safety requirements and have a working knowledge of the weapon. They must be able to distinguish between live and blank ammunition. The unit must provide training to emphasize safe handling, weapon operation, use of blank and operator maintenance. This training must be documented on AF Form 1098, *Special Task Certification and Recurring Training* or AF Form 797, *Job Qualification Standard Continuation/Command JQS*.

4.2. **Issue:**

4.2.1. A Combat Arms official or trained and qualified exercise supervisor designated by the CC will issue blank ammunition for use in field exercises.

4.2.2. A Combat Arms official or trained and qualified person designated by the Squadron CC will only issue ammunition to a Supervisor or Team Leader via AF Form 1297 for the container of blanks. Prior to the Supervisor or Team Leader issuing blank ammunition to their personnel, they will inspect every weapon to ensure they are in proper working order.

4.2.3. All AF Form 1297s will be maintained for a period of 90 days from date of exercise by the squadron supply representative.

4.3. **Turn-in:**

4.3.1. All unexpended rounds will be returned to the issue point upon completion of the exercise. Supervisors and Team Leaders will ensure all personnel and equipment are inspected for any unfired blank rounds of ammunition.

4.3.2. The CC will designate a Senior Noncommissioned Officer (SNCO) to monitor the removal of blank ammunition from magazines.

4.3.3. The munitions custodian or other trained and qualified Noncommissioned Officer (NCO) will visually inspect all unexpended blank ammunition to ensure blank ammunition is not stored with live ammunition.

4.3.4. Upon completion of the inspection, unexpended blank ammunition will be stored in the original container according to lot number and a seal will be placed on the container. The outside of the container will be marked "BLANK AMMUNITION" along with the quantity. An electronic expenditure request will be submitted for the number of rounds expended and certified as a custody account expenditure. The ammunition will then be returned to the munitions storage area and turned in.

4.3.5. Upon return from exercise all weapons will be safe and cleared at a designated clearing barrel prior to weapon turn-in to the armory or the storage vault.

4.4. Controlling, loading and marking ammunition: Warning: Inspect each round of ammunition to ensure it is a blank before use As there exists the possibility of live ammunition being mixed and commingled with blank ammunition.

4.4.1. Members who are armed with live ammunition performing official duties will not be permitted into the exercise area. When possible, individuals responsible for performing weapons guard (Guard Duty), for resource protection, will not be armed with same caliber ammunition as blank ammunition being used in field training exercises. The guard weapon should be an M9 to prevent commingling of training and live ammunition. The base of the magazine will be painted red to identify the magazine as containing **“LIVE ROUNDS”** and consider the use of reflective vests. All exercise participants must be aware of the means used to identify personnel who are armed with live ammunition. Prior to the start or termination of training, check all ammunition pouches, rucksacks, mobility bags and magazines for live and blank ammunitions Supervision will brief personnel regarding their responsibilities from a safety and accountability standpoint.

4.4.2. An official designated by the Squadron CC will visually inspect all blank ammunition utilized by the 919 SOW prior to use in any/all field exercises.

4.4.3. An official designated by the CC will supervise the loading of all magazines with blank ammunition.

4.4.4. An official designated by the CC will ensure that all magazines containing blank ammunitions are sealed with tape and marked with the initials of the member responsible for loading. Blank ammunition will be stored in separate containers from live ammunition to ensure appropriate segregation and storage, blank ammunition and live ammunition will not be stored side-by-side.

4.4.5. An official designated by the CC will ensure that all magazines containing blank ammunition are stored in a metal container during exercises. For weapons with magazines, a distinctive two-inch wide, blue stripe will be painted around the bottom of the magazine for blank ammunition use. The container will be sealed and **“BLANK AMMUNITION”** will be written on the outside of the container. Paint a blue, two-inch wide stripe across the top of the blank ammunition container.

4.4.6. At no time will blank ammunition be fired through a weapon that does not have a Blank Firing Adapter (BFA) properly installed.

4.4.7. Explosives limits will not exceed a full “combat load” of 210 rounds per participant during an exercise. See [paragraph 6](#) for exceptions.

4.4.8. Blank ammunition has the following nomenclature: Cartridge, 5.56MM Blank M200, 1305-00-182-3217, DODIC A080, 1305-01-258-8694, DODIC A075, 1370-00-309-5028, DODIC L275, 1370-00-115-3432, DODIC L275.

4.4.9. Blank ammunition falls under the following HC/D/Storage Compatibility Group (SCGP): 1.4S.

4.5. Exact Location and Method of Employment:

4.5.1. The Exercise Team Chief will prepare a risk assessment and comprehensive list of explosives detailing the NSN, HC/D, and explosives weights authorized for use in the exercise and a detailed list of locations where munitions will be deployed. Use of grid map coordinates is highly recommended. Include the SEW in the planning. This assessment must meet the requirements of AFMAN 91-201, covering training and exercise plans involving explosives.

4.5.2. Provide copies to the 919 SOW/SE. Local exercises will be conducted on the Eglin reservation. Training areas must be selected with assurance that no military or civilian nonparticipants will intrude. Locations off Duke Field must be coordinated with Eglin range control and the 919 SOW/SE, prior to use.

4.6. Actions During an Emergency or Abnormal Condition:

4.6.1. The safety official designated by the Exercise CC will have a cellular phone or radio to enable the safety official to contact emergency personnel in case of an accident.

4.6.2. The safety official will obtain a list of emergency numbers to contact from the exercise area in case of any accidents. Some emergency numbers are in paragraph 5 of this instruction. The safety official will ensure that the Security Forces (SFS) CC, Flight Leader, MASO, Medical personnel and Wing Safety are notified of any accidents. The safety official will be responsible to record the events and names of personnel involved and write reports as required in support of the mishap investigation.

4.6.3. If a live round of ammunition is found mixed with blank ammunition cease all exercise activities immediately. Notify supervision and the MASO immediately. The exercise will not continue until authorized personnel can determine verification of ammunition type.

4.6.4. If an abnormal condition occurs cease operations and notify supervision immediately.

4.6.5. In the event a round fails to fire, take the appropriate immediate action detailed in the weapon's operator manual.

4.7. Inventory Procedures:

4.7.1. A complete inventory of all blank and live ammunition will be conducted prior to the start of the exercise, at the change of shift, at the end of the day, and at the end of the exercise.

4.7.2. All out of balance conditions shall cause the exercise to be terminated until the out of balance condition is resolved.

4.8. Explosive Residue and Expenditure:

4.8.1. Individuals will police up expended brass to the greatest extent possible and turn-in as residue.

4.8.2. Munitions account custodians will return unexpended munitions to the munitions storage area directly from the training exercise. All munitions residue must be returned to the munitions storage area by the next working day. All expenditures will be certified by a munitions account custodian. Quantities must account for all munitions issued in

support of the exercise/ training. Certification should be completed at the time of munitions residue turnin, but not later than 1100 Local (L) the next duty day.

4.9. Prior to Start or Termination of Training and Accountability:

4.9.1. The exercise supervisor will use a STIF to aid in conducting a safety briefing prior to the exercise beginning. A sign in sheet will be completed and maintained for a period of 90 days in the squadron. Records will include names of personnel who received the briefing, the date, a copy of the briefing material and the name of briefer. As a minimum the following areas will be addressed:

4.9.1.1. Explosive limits, including the HC/D/SCGP of the explosives involved. Identify the differences between blank and live ammunition.

4.9.1.2. Personnel limits, including workers and others.

4.9.1.3. Exact locations of use to include method of employment.

4.9.1.4. Safety requirements, including special requirements for personal protective clothing and equipment. Safe firing distances will be adhered to as required based on type of ammunition and weapon. Refer to specific Air Force (AF) T.O.

4.9.1.5. Step-by-step procedures for doing the task to include the process of loading, unloading, marking magazines, issue and turn-in procedures and the certification and separation of live and blank ammunition. Refer to specific steps in the T.O. or other directives for applicable portions of the operation.

4.9.1.6. Actions to be taken during an emergency or when abnormal conditions are noted.

4.9.2. The exercise supervisor will establish a weapon clearing area IAW AFMAN 31-229, *USAF Weapons Handling Manual*, where weapons can be checked prior to and after exercises or in case of accidents during the exercise.

4.9.3. Prior to the start or termination of training, check all ammunition pouches, rucksacks, mobility bags and magazines for live and blank ammunition. Supervision will brief personnel regarding their responsibilities from a safety and accountability standpoint.

4.9.4. See paragraph 9 of this instruction for munitions accountability.

5. Emergency Telephone Numbers:

5.1. Medical: 911(Duke Field Fire Department Rescue Team) 911 (Ambulance)

5.2. Fire: 911 (Duke Field Fire Department)

5.3. SFS: 8822502

5.4. EOD: 96th Air Base Wing (ABW) EOD 882-3224. When EOD is notified due to duds or munitions malfunctions the 919 SOW CP will be notified.

5.5. 919 SOW CP: 8836701/02

5.6. Eglin CP: 883-4020

5.7. 919 SOW/SE: 8836710/6723/6801. Call CP after normal duty hours.

5.8. MASO: 883-6323

6. Explosives Limits: Obtain and use the fewest munitions necessary for each exercise. Daily explosives limits are listed in the applicable operating safety section or attachment of this instruction. The SE may authorize exceptions to these explosive limits on a casebycase basis.

Note: SFS training munitions will not exceed authorizations in Air Force Catalog (AFCAT) 21-209V1, *Ground Munitions*.

7. Personnel Limits: Will be determined by the operation or training event and include all workers or personnel being trained, casualties, and supervisors. In all cases, personnel limits will be the minimum necessary to accomplish training and approved by 919 SOW/SE.

8. Exact Locations: Local exercises will be conducted on the Eglin reservation. Training areas must be selected with assurance that no military or civilian nonparticipants will intrude. Locations off Duke Field must be coordinated with Eglin range control and 919 SOW/SE, prior to use. The exercise team chief will include exact locations in the exercise risk assessment. Map grid coordinates are highly encouraged.

9. Munitions Accountability:

9.1. Units requiring training munitions for an exercise or training will contact the 919 SOW Environmental Manager in writing; 45 days prior to scheduled training to obtain an environmental impact approval for the proposed training/exercise. This approval will be in the form of an AF Form 813, *Request for Environment Impact Analysis*. Upon completion of training/exercise report exact number and types of munitions expended to the 919 SOW Environmental Manager.

9.2. Units requiring training munitions for an exercise or training will submit a digitally signed electronic request to the munitions storage supervisor, through 919 SOW/SE. (See Attachment 6 for a sample). Requests will be submitted to 919 SOW/SE at least two weeks prior to the start of the exercise. A copy of the approved AF Form 813 must be attached. Munitions will not be issued without SE approval.

9.3. Munitions will only be issued from the munitions section to munitions account custodians or trained and qualified individuals designated by the custodian to receive the munitions.

9.4. Only the minimum quantity of munitions necessary for training will be removed from storage facility at any time. Whenever practical, only one day's supply will be withdrawn daily.

9.5. Munitions will remain packaged as received from the munitions storage area until time to be used. Return unused munitions to original packaging after use.

9.6. Blank ammunition may be issued to trainees after their weapons safety briefing and requirements of paragraph 4 have been met. Issues will be in minimum quantities necessary for one day's expenditure. Users will keep a record of munitions quantities they issue and expend.

9.7. Individuals will police up expended brass and munitions residue to the greatest extent possible and turn-in as residue.

9.8. Munitions Account Custodians will coordinate with the munitions section for the pickup and return of unexpended munitions. All munitions residue must be returned to the munitions storage area by the next working day. All expenditures will be certified by a Munitions Account Custodian. Quantities must account for all munitions issued in support of the exercise/training. Certification should be completed at the time of munitions residue turnin, but not later than 1100L the next duty day.

10. Transporting Munitions:

10.1. Transporting munitions by vehicle requires special operator training and vehicle equipment. Arrangements can often be made to have munitions transported by specialists and vehicles from our munitions maintenance section. This is the preferred method for transportation. This service is provided as a courtesy, on a workload permitting basis, and may not always be available. Requests must be made to the munitions section chief at least two weeks before transportation support is needed. Off-base munitions movements require a commercial driver's license and must be approved through the Transportation Management Office (TMO).

10.2. Personnel transporting munitions must comply with explosive transportation requirements in AFMAN 91-201 and subsequent AFIs. Some considerations are:

10.2.1. Only government owned and operated vehicles equipped with a minimum of two portable 2A:10BC fire extinguishers will be used to transport munitions.

10.2.2. Simulators and smoke producing munitions will not be transported in Privately Owned Vehicles (POV), pockets, or unmarked containers.

10.2.3. Air Force Specialty Codes (AFSC) 2WOX1, (Munitions Systems Personnel) will be the only 919 SOW members to transport munitions (except aircrew survival signals and blank ammunition in individual issue quantities).

10.2.4. Transport explosives in their approved storage and shipping packaging. If less than a single shipping package must be transported, pack the explosives separately from other items enclosed in clearly identified metal or wooden containers.

10.2.5. Drivers must be trained and tested in operation of the type vehicle used, and informed of the explosive hazards.

10.2.6. Authorized explosives movement routes will be used to the maximum extent possible. Plan to avoid inhabited areas.

10.2.7. Transport munitions strapped down in cargo compartment of vehicles.

10.2.8. Personnel will not ride in cargo compartments of vehicles which are transporting munitions.

10.2.9. No smoking in vehicles transporting munitions. Keep munitions 50 feet away from open flames.

10.2.10. Vehicles transporting munitions will not be refueled or have maintenance performed except as permitted in AF MAN 91-201 chapter 8.37.

10.2.11. The requirements of AFMAN 91-201_AFRCSUP1, apply when higher headquarters evaluator teams are using rental vehicles on base in the performance of military duties.

JAMES M. PHILLIPS, Col, USAFR
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFCAT 21-209V1, *Ground Munitions*, 09 November 2007

AFI 33-360, *Publications and Forms Management*, 25 Sep 2013

AFI 91-202, *The US Air Force Mishap Prevention Program*, Chapter 9, 5 August 2011

AFI 91-202_AFRCSUP1 *Air Force Reserve Command Supplement*, 14 November 2012

AFMAN 31-229, *USAF Weapons Handling Manual*, 12 May 2004

AFMAN 33-363, *Management of Records*, 1 Mar 2008

AFMAN 91-201, *Explosive Safety Standards*, 12 January 2011

AFMAN 91-201_AFRCSUP, *Explosive Safety Standards*, 28 February 2012

AFPD 91-2, *Safety Programs*, 24 July 2012

JCHS, *Joint Hazard Classification System* (replaced 11A-1-46)

Prescribed Forms

919 SOW Form 13, *Specific Task Instruction Form*

Adopted Forms

AF Form 847, *Recommendation for Change of Publication*

AF Form 1297, *Temporary Issue Receipt*

AF Form 1098, *Special Task Certification and Recurring Training*

AF Form 797, *Job Qualification Standard Continuation/Command JQS*

AF Form 813, *Request for Environment Impact Analysis*

AF Form 2047, *Explosive Facility License*

Abbreviations and Acronyms

ABW—Air Base Wing

AFCAT—Air Force Catalog

AF—Air Force

AFI—Air Force Instruction

AFCAT—Air Force Catalog

AFMAN—Air Force Manual

AFPD—Air Force Policy Directive

AFRC—Air Force Reserve Command

AFRCSUP—Air Force Reserve Command Supplement

AFRIMS—Air Force Records Information Management System

AFSC—Air Force Specialty Code

CC—Commander

CP—Command Post

BFA—Blank Firing Adapter

EOD—Explosive Ordnance Disposal

ESP—Explosive Site Plan

HC—Hexachloroethane

HC/D—Hazard Class Division

HHQ—Higher Headquarters

IMT—Air Force Information Management Tool

IAW—In Accordance With

JCHS—Joint Hazard Classification System

MAJCOM—Major Command

MASO—Munitions Accountable Systems Officer

MSG—Maintenance Support Group

MXS/MXMVW—Maintenance Squadron/Munitions

NEW—Net Explosive Weight

NCO—Noncommissioned Officer

NSN—National Stock Number

OI—Operating Instruction

OPR—Office of Primary Responsibility

POV—Privately Owned Vehicles

RDS—Records Disposition Schedule

SCGP—Storage Compatibility Group

SE—Safety Office

SEW—Weapons Safety Office

SFS—Security Forces

SNCO—Senior Noncommissioned Officer

SOW—Special Operations Wing

STIF—Specific Task Instruction Form

TMO—Transportation Management Office

TO—Technical Order

USAF—United States Air Force

UXO—Unexploded Ordinance

Terms

Cradle to Grave—From creation to termination of process.

Exercise—Any event such as: Base defense training, Escape and evasion training or readiness exercises where 919 SOW members operate and or handle munitions.

Munitions—Ammunition and explosives designed to be used for military purposes. Examples are battlefield simulators, pyrotechnics, smoke producing devices, small arms ammunition, chaff and flares, rockets, bombs, and aircrew survival signals.

Trained and Qualified—Personnel who work with explosives will be trained in accordance with AFI 91-202, AFRC Sup 1 chapter 9, be current in local weapons/explosives safety training requirements and qualified in the tasks to be performed. They must understand all safety standards, requirements and precautions that apply to the operation. The supervisor must be knowledgeable of all hazards involved in the operation, convey emergency procedures to workers and visitors, and maintain strict housekeeping standards. The supervisor must also know what steps to take when abnormal conditions arise. Trained and qualified personnel will understand, strictly follow, and enforce procedures published in this instruction. Only trained and qualified personnel will be permitted to issue munitions.

Attachment 2

OPERATING SAFETY—SMOKE PRODUCING MUNITIONS

A2.1. OPERATING SAFETY—SMOKE PRODUCING MUNITIONS. ONLY USAF STOCK LISTED ITEMS ARE AUTHORIZED FOR SIMULATOR AND SMOKE PRODUCING MUNITIONS TRAINING IN 919 SOW. ONLY TRAINED PERSONNEL CAN PREPARE AND ACTIVATE THESE DEVICES. Use this training information in conjunction with current standard publications.

A2.2. The following restrictions apply to the use of these items: Warning: Hand grenades that fail to function (dud) will be treated as Unexploded Ordinances (UXO)s and will not be moved, handled or tampered with. Keep personnel away from the dud and contact EOD for disposal. DO NOT use pull ring for lifting or handling grenade. If grenade is packed upside down or safety pin is not properly in place, do not attempt to remove it from the fiber container. Notify EOD. Once the safety pin has been pulled, DO NOT attempt to reinstall the pin. The grenade must be expended.

A2.2.1. The area where the items are to be used must be free of combustible material within a 10-foot radius of the initiation point.

A2.2.2. Consider wind direction and possible fire hazards to dry grass and flammables liquids in the immediate area. NOTE: NONE OF THE ABOVE DISTANCES APPLY TO SMOKE GRENADES ONLY BATTLEFIELD SIMULATORS IN ATTACHMENT 3 BELOW.

A2.2.3. Initiated items will be monitored for proper functioning and residue will be properly disposed of.

A2.2.4. EOD will be notified when a munitions item malfunctions.

A2.2.5. Smoke pots and smoke grenades will not be prepositioned and left unattended.

A2.3. Hazards: The main hazards from smoke munitions involve smoke inhalation, high temperature burn, fire hazard, and toxic residue on items containing Hexachloroethane (HC), Zinc Oxide and Aluminum. HC munitions are marked "HC."

Table A2.1. Smoke Grenades, M18 and ANM8 (HC):

Nomenclature	NSN	DODIC	HC/CG
Grenade, Hand, Smoke, White, HC AN-M8 Series	1330-00-171-3112	G930	1.4G
Grenade, Hand, Smoke, HC AN-M8	1330-00-219-8511		
Grenade, Hand, Smoke, White, HC AN-M8 Series	1330-00-540-7622		
Grenade, Hand, Smoke, Green, M18	1330-00-289-6851	G940	
	1330-00-540-9147		
Grenade, Hand, Smoke, Yellow, M18	1330-00-289-6854	G945	
	1330-00-540-9145		
Grenade, Hand, Smoke, Red, M18	1330-00-289-6852	G950	

Grenade, Hand, Smoke, Violet, M18	1330-00-289-6853	G955	
	1330-00-540-7185		
EXPLOSIVE LIMITS PER TRAINING EVENT:	12		
EXPLOSIVE LIMITS PER EXERCISE	24		

A2.4. Grenades have a 2-second delay and smoke for 50 to 90 seconds.

Attachment 3

OPERATING SAFETY—BATTLEFIELD SIMULATORS

A3.1. OPERATING SAFETY—BATTLEFIELD SIMULATORS: ONLY USAF STOCK LISTED ITEMS ARE AUTHORIZED FOR SIMULATOR AND SMOKE PRODUCING MUNITIONS TRAINING IN 919 SOW. ONLY TRAINED PERSONNEL CAN PREPARE AND ACTIVATE THESE DEVICES. Use this training information in conjunction with current standard publications. **Warning:** Simulator duds will not be moved, handled or tampered with. Keep personnel away from the dud and contact EOD for disposal.

A3.2. The area where the items are to be used must be free of combustible material within a 15-foot radius surrounding the items.

A3.3. Minimum distances:

A3.3.1. Personnel or vehicle: Maintain a minimum of 125 feet separation. Personnel who initiate these munitions may be closer than 125 feet, but they should be as close to 125 feet as possible and have their backs to the munitions.

A3.3.2. Facilities without facing window: Maintain a minimum separation of 100 feet.

A3.3.3. Facilities with facing window: Maintain a minimum separation of 200 feet.

A3.3.4. Harden facilities, including hardened aircraft shelters: Maintain a minimum separation of 50 feet.

A3.3.5. Petroleum, oil and lubricants storage: Maintain a minimum separation of 200 feet.

A3.3.6. Aircraft in the open: Maintain a minimum separation of 100 feet or 200 feet if aircraft are explosive loaded.

A3.3.7. Explosive operating locations, holding areas, open storage areas or butler-type storage facilities: Maintain a minimum separation of 200 feet.

A3.3.8. Above ground magazines of block, brick, or concrete construction and from earth covered magazines: Maintain a minimum separation of 50 feet.

A3.4. Initiated items will be monitored for proper functioning and residue will be properly disposed.

A3.5. EOD will be notified when a munitions item malfunctions.

A3.6. Battlefield simulators will not be prepositioned and left unattended.

A3.7. The main hazard from simulators is blast, with accompanying fragments. They might ignite combustible materials.

Table A3.1. Ground Burst Simulator M115A2.

Nomenclature	NSN	DODIC	HC/CG
Simulator, Projectile, Ground Burst, M115A2	1370-00-752-8126	L594	1.2.2G
EXPLOSIVE LIMITS PER TRAINING EVENT:	24		
EXPLOSIVE LIMITS PER EXERCISE	24		

A3.7.1. The M115A2 simulator may cause gravel, sticks, and other debris to be projected at high velocity.

A3.7.2. Do not remove simulator safety clip until immediately prior to functioning.

A3.7.3. Never pull the cord more than once or attempt to determine if fuse delay has functioned. Always immediately throw the simulator.

A3.7.4. Only EOD personnel will handle and dispose of dud battlefield simulators.

A3.7.5. Personnel will wear a leather glove on the holding hand when operating simulators. Long sleeves will be rolled down.

A3.7.6. Simulators will not be carried in such a manner that they may be dropped or lost without the knowledge of the individual.

A3.7.7. Immediately throw the simulator ensuring personnel are at least 125 feet from the functioning simulator. Avoid throwing toward trees or other obstacles that may deflect the simulator.

A3.7.8. If a simulator fails to function the appointed member will notify EOD.

A3.7.9. Following the exercise the training area will be policed and all duds accounted for.

Table A3.2. Booby Trap Simulators, M118 and M119.

Nomenclature	NSN	DODIC	HC/CG
Simulator, Booby Trap M118	1370-00-028-5257	L599	1.3G
Simulator, Booby Trap Whistling M119	1370-00-028-5255	L600	
EXPLOSIVE LIMITS PER TRAINING EVENT:	9		
EXPLOSIVE LIMITS PER EXERCISE	24		

A3.8. M118 (illuminating) and M119 (whistling) principally differ in having either a 28-second illuminating flame versus a whistle lasting 2 1/2 to 5 seconds.

A3.8.1. Do not attempt to use simulators by taping or wiring it to the mounting surface.

A3.8.2. Do not remove the simulator cap out of step sequence.

A3.8.3. Do not initiate while holding in hand.

A3.8.4. Booby trap simulators do not have a delay fuse. Use caution when setting them up.

A3.8.5. Booby trap simulators will not be carried in such a manner whereby they may be dropped or lost without the knowledge of the individual.

A3.8.6. Dry grass or leaves directly underneath may become ignited. DO NOT activate the simulator while holding it in your hand as this can cause injury.

A3.8.7. If a booby trap simulator fails to function contact EOD for disposal. The appointed member will notify EOD.

A3.8.8. Following the exercise, the training area will be policed for burned (functioned) booby traps. Contact EOD for disposal of duds. Live booby traps will be located and tripped.

Attachment 4**OPERATING SAFETY—TRIP FLARES M49AL**

A4.1. OPERATING SAFETY—TRIP FLARES M49Al: Use this training information in conjunction with current standard publications.

A4.2. The principal trip flare hazard is potential for starting a fire and burning personnel. **Warning:** Trip flares burn at a very high temperature. Care must be taken when using around personnel and combustible material such as dry vegetation. Trip flares do not have a delay type fuse. Use extreme caution when setting them up. Personnel not actually working on the flare should be no closer than 150 feet from the firing site. Do not approach duds. Dampness or deterioration in the powder may cause prolonged burning. Inspect the flare-mounting bracket immediately after removing from the shipping container and inspect for missing safety clips and corrosion.

Table A4.1. TRIP FLARES M49Al.

Nomenclature	NSN	DODIC	HC/CG
Flare, Surface, Trip, M49A1	1370-00-752-8060	L495	1.3G
EXPLOSIVE LIMITS PER TRAINING EVENT:	10		
EXPLOSIVE LIMITS PER EXERCISE	29		

A4.3. Trip Flares will not be carried in such a manner whereby they may be dropped or lost without the knowledge of the individual.

A4.4. The trained and qualified member will insure a record is made of all trip flares installed in the exercise area.

A4.5. Following the exercise the training area will be policed for all flares that were not tripped. Once located, the flares will be tripped. Do not attempt to remove dud flares.

A4.6. The training area will be policed for all functioned trip flares. All duds will be accounted for. Contact EOD for disposal of all duds. The trained and qualified member will notify EOD.

Attachment 5

OPERATING SAFETY—SIGNALS

A5.1. OPERATING SAFETY—SIGNALS: Use this training information in conjunction with current standard publications.

A5.2. Hazards: The potential for fire and burns exist. **Warning:** If the signal fails to function follow appropriate guidance in applicable technical or operating manual. EOD will be notified for disposal of the dud. Dampness or deterioration in the powder may cause prolonged burning.

A5.3. Ground Illumination Signal M127A1: Warning: M127A1 signals burn at a very high temperature. Care must be taken when using them around dry vegetation and personnel. If the metal shipping container is bent, rusted or otherwise corroded, do not open it. Put it aside; contact EOD for disposal of it.

Table A5.1. Ground Illumination Signal M127A1.

Nomenclature	NSN	DODIC	HC/CG
Signal, Illumination Ground White Star Para M127A1	1370-00-892-4815	L312	1.3G
EXPLOSIVE LIMITS PER TRAINING EVENT:	10		
EXPLOSIVE LIMITS PER EXERCISE	10		

A5.4. Signals will not be carried in such a manner whereby they may be dropped or lost without the knowledge of the individual.

A5.5. Signal, Smoke and Illumination MK13 MOD 0 or MK 124 MOD 0: Warning: Signals burn at high temperatures. Care must be taken when used around personnel and dry vegetation. Do not point the signal towards yourself or others.

Table A5.2. Signal, Smoke and Illumination.

Nomenclature	NSN	DODIC	HC/CG
Signal, Smoke and Illumination Marine MK13 Mod0	1370-00-309-5028	L275	
Signal, Smoke and Illumination Marine MK124 Mod0	1370-01-030-8330	L283	1.4G
EXPLOSIVE LIMITS PER TRAINING EVENT:	12		
EXPLOSIVE LIMITS PER EXERCISE	9		

A5.5.1. Signals will not be carried in such a manner whereby they may be dropped or lost without the knowledge of the individual.

A5.5.2. If a signal fails to function take appropriate action as required in item specific technical or operating manual, notify EOD as required.

A5.5.3. Following the training event the area will be policed for burned (functioned) signals. Contact EOD for disposal of all duds.

A5.6. Signal Kit, Personnel, Distress, AP-25S-5A: Warning: Signals burn at high temperatures. Care must be taken when used around personnel and dry vegetation. Do not point the signal towards yourself or others.

Table A5.3. Signal Kit, Personnel, Distress.

Nomenclature	NSN	DODIC	HC/CG
Signal Kit, Personnel, Distress, AP-25S-5A	1370-00-490-7362	L119	1.3G
EXPLOSIVE LIMITS PER TRAINING EVENT:	4		
EXPLOSIVE LIMITS PER EXERCISE	6		

A5.6.1. AP-25S-5A signals will not be carried in such a manner whereby they may be dropped or lost without the knowledge of the individual.

A5.6.2. If an AP-25S-5A signal fails to fire take appropriate action as required in item specific technical or operating manual. Aircrew Flight Equipment personnel will notify EOD.

A5.6.3. Contact EOD for disposal of all duds.

Attachment 6**SAMPLE LETTER****A6.1. SAMPLE LETTER. DEPARTMENT OF THE AIR FORCE**

AIR FORCE RESERVE

Date

MEMORANDUM FOR 919 SOW/SE

FROM: (Your Unit/CC)

SUBJECT: Request for Exercise Training Munitions

1. Training will be conducted on (date) beginning at (time)
2. Training will be in (area), Range (#)
3. There will be (XX) personnel training and (XX) qualified personnel conducting operations IAW 919 SOWI 91-201.

4. Request delivery of the following munitions items to range (range) not later than (time) on (date):

TYPE : QTY:

5. Qualified personnel names and date of training

Name: _____ Training Date: _____

6. Munitions residue will be ready for pick up by (time/date).

(Current Unit Commander), Rank, USAFR

Commander

Attachment 7**EXERCISE PLANNING LIST****A7.1. EXERCISE PLANNING LIST.**

A7.2. Verify approval of request.

A7.3. Verify availability of location.

A7.4. Are the required number of trained and qualified personnel available?

A7.5. Are armed personnel available for resource protection (when necessary)?

A7.6. Has an AF 813 been submitted and approved with the 919th Maintenance Support Group (MSG) Environmental Manager?

A7.7. Have requests been submitted for issue of items with the 919th Maintenance Squadron/Munitions (MXS/MXMVW)?

A7.8. Has EOD been notified of dates and times?

A7.9. Have transportation arrangements been made?

A7.10. Is an equipment kit stocked and available?

A7.11. Have preliminary training/briefing times been established, (i.e. blanks, scenario, etc.)?

A7.12. Have base security police, fire department and 919 SOW/SE been advised of training location and time?

A7.13. Has the Exercise Team Chief prepared a risk assessment as required in [paragraph 3.1](#)?

Attachment 8**INSTRUCTIONS FOR COMPLETING 919 SOW FORM 13, SPECIFIC TASK
INSTRUCTION****A8.1. INSTRUCTIONS FOR COMPLETING 919 SOW FORM 13, SPECIFIC TASK
INSTRUCTION**

A8.2. Block 1: STIF Number—Enter the specific form number for the task to be performed. There will be a different number locally assigned for each task (build-up M-201 Flares—Form number 919 MXS/MXMVW-01, Load M-206 Flares—Form number 919 MXS/MXMVW-02, etc.).

A8.3. Block 2: Task to be performed—Enter the task to be performed. Such as: Build-up, Load, Un-Load, Inspect, Transport, etc.

A8.4. Block 3: Nomenclature—Enter the correct nomenclature of the munitions item to be used. Such as: Flare, IR CM, M-206, Cartridge, Chaff, RR-170, CTG, 5.56mm, Blank, M200, etc.

A8.5. Block 4: NSN - Enter the thirteen (13) digit NSN.

A8.6. Block 5: Applicable Technical Data—Enter the applicable T.O. number.

A8.7. Block 6: Facility Identification—Enter the building number and type of building. Such as: Building 3130—Maintenance and Inspection Facility or Building 3142—Storage Facility.

A8.8. Block 7: Enter Building Explosive Limits—Enter the explosive limits for the applicable building. (This is specified on the applicable AF Form 2047, *Explosive Facility License* in Section II, lock C) This is also specified on the applicable Site Plan.

A8.9. Block 8: HC/D—Enter the HC/D for the munitions being used.

A8.10. Block 9: SCGP—Enter the SCGP for the munitions being used.

A8.11. Block 10: Net Explosive Weight (N.E.W.) per item—Enter the N.E.W. per item for the munitions being used. This can be located in the specific item T.O. 11A-1-46.

A8.12. Block 11: Total Operational Explosive Limits—Enter the maximum operational explosive limits for the task being performed in the applicable facility.

A8.13. Block 12: Supervisors—Enter the Number of supervisors allowed in the area for the task being performed.

A8.14. Block 13: Workers—Enter the Number of workers allowed in the area for the task being performed.

A8.15. Block 14: Casuals—Enter the Number of casualties allowed in the area for the task being performed.

A8.16. Block 15: Location of Operation—Enter the exact location of where the operation is taking place. (Such as, building 3136, bay 3, north wall, Building 3136, bay 1, south wall, etc.).

A8.17. Block 16: Place a check in the box after the item is complied with.

A8.18. Block 17: Hazard Symbol Code—Enter the hazard code for the munitions item being used. Hazard Symbol Codes can be found in JCHS.

A8.19. Block 18: Fire Symbol Hazard and Action—Enter the fire symbol hazard and action for the munitions being used. Fire Symbol Hazard and Actions can be found in T.O. 11A-1-46, Section I and in AFMAN 91-201, Section 2.

A8.20. Block 19: Place a check in the box after the item is complied with.

A8.21. Block 20: List the required tools, equipment, personnel protective equipment, and technical data needed to work with the munitions being used. (Such as: Face Shield, Wrist Strap Tester, Wrist Straps, Leather Gloves, etc.)

A8.22. Block 21—Block 26: Place a check in the box after item is briefed and or complied with.

A8.23. Block 26.1: Enter the applicable extension, radio channel, and call sign of the applicable Control Function to notify in case of an emergency.

A8.24. Block 26.2: Assign the task and list the appropriate contact number for contacting EOD. Be prepared to give exact details involving the occurrence.

A8.25. Block 26.3.—Block 26.6: Enter the name of the person assigned to perform the emergency duties.

A8.26. Block 26.7: Enter the withdrawal distance and the exact location to evacuate to in the event of an emergency—AFMAN 91-201, Emergency Withdrawal Distances in Table 10-1 outlines the appropriate withdrawal distances. For guidance on how far to withdraw nonessential personnel involving explosives, see the JCHS.

A8.27. Block 26.8. & Block 26.9: Enter the name of the person assigned to perform the emergency duty.

A8.28. Block 26.10: Place a check in the box after item is briefed and or complied with.

A8.29. Block 27: Place a check in the box after item is briefed and or complied with.

A8.30. Block 28: Step by Step Procedures—Enter your specific step by step procedures (or reference their location). In no way is it implied that you must reiterate items previously covered in an existing T.O., AFI or other approved Published Documents. This simply means to list all actions required to perform the task that is not previously covered elsewhere.

Attachment 9

OUTLINE FOR LOCALLY WRITTEN EXPLOSIVES OIS

A9.1. OUTLINE FOR LOCALLY WRITTEN EXPLOSIVES OIs.

A9.2. Requirements: All 919 SOW locally written explosives OIs should consist of the following 12 paragraphs and required attachments (Paragraph A9.13). Each “**Bold**” paragraph below corresponds with a paragraph heading or a section which must be addressed in an explosive OI. The 12 paragraphs will address common questions asked by higher headquarters inspectors during inspections. AFMAN 91-201 mandates seven areas which must be addressed in all operations involving explosives and the other six are addressed in AFI 33-360, *Publications and Forms Management*. The AFMAN 91-201 areas are identified by an (*) asterisk. Written instructions must be developed for all explosive operations. If other documents such as technical orders or safety briefings cover all the items required below, separate written instructions are not required. All licensed locations must have an OI established for their explosive operations. Coordinate all OIs through the SEW and have them approved by the Squadron CC or equivalent. (AFI 91-202)

A9.3. Guidance: 919 SOW’s guidance is consistent with operational requirements to:

A9.3.1. Observe explosives safety practices during all operations (includes war time, preparation for war, armistice, heightened tensions, etc.) that include the use of live explosives.

A9.3.2. Comply with Department of Defense (DoD) and AF explosives safety and environmental standards.

A9.3.3. Provide the maximum possible protection to personnel and property, both inside and outside the installation, from the damaging effects of potential accidents involving ammunition and explosives.

A9.3.4. Comply with the cardinal principle for explosives safety—Expose the minimum number of people to the minimum amount of explosives for the minimum amount of time.

A9.3.5. Comply with this OI except when compliance with more restrictive local standards is mandatory by an international agreement.

A9.4. References: In attachment 1, list other instructions, manuals, T.O., etc. used for supporting information. AFMAN 91-201, and item unique T.O.’s should always be references. List by number and full title.

A9.5. Terminology: In attachment 1, in some cases it may be necessary to define certain words for readers. Remember your audience.

A9.6. Responsibilities: It is necessary, depending on the operation covered in the OI, to spell out responsibilities by flight chief, supervisor, crew chief, worker, etc. This is a good way to ensure all personnel know what is required of them during explosive operations.

A9.7. General Requirements: List general requirements established locally or by other directives.

A9.8. * Explosive Limits: Clearly state the authorized NEW or the exact number of explosive items permitted, HC/D and compatibility group of the explosives involved. For licensed

locations, use information from the AF Form 2047. Sited locations such as the Munitions Storage Area should use the NEW from the explosive site plan (ESP) authorized for the location. (AFMAN 91-201) (Three parts)

A9.9. * Personnel Limits: Personnel limits should be clearly stated for the operations being conducted at each explosives operating location. Limits will distinguish between the number of supervisors, workers and casuals, and kept to the minimum number needed/authorized to conduct the operation. Casuals are persons not normally part of an explosives operation but have duties that require their presence, such as quality assurance, safety or inspection personnel. Visitors are non-essential personnel with limited access. Stop operations when visitors are present. Keep personnel limits to a minimum to get the job done. (AFMAN 91-201)

A9.10. * Exact Location: Exact locations where explosives operations are done must be included in written instructions. This could be a pad, building, room etc. Be specific when documenting the location. (Such as building 3136, bay 2, south wall). (AFMAN 91-201)

A9.11. * Safety Requirements. Include in written procedures any safety requirements/precautions that must be adhered to during the operation. Also, any personal protective clothing or equipment needed to conduct the operation should be included (i.e. fire extinguishers, gloves, goggles, face shields, hardhats, etc.). Address the requirement to remove jewelry, watches, rings, etc. before working with explosives in this paragraph. (AFMAN 91-201)

A9.12. * Step-by-Step Procedures: This section of the OI describes procedures for doing the operation. All steps required for completing the task should be stated here. Steps taken leading up to the use of a T.O. and steps taken after the T.O. requirements are completed. Include any unique procedures for completing the task here. For operations requiring T.O., refer to the specific steps, don't copy or rewrite tech data steps in the OI. This area should address all actions from cradle to grave. (AFMAN 91-201)

A9.13. * Emergency Actions: Include actions to be taken during an emergency or when abnormal conditions are noted and ensure personnel understand their roles during an emergency or when an abnormal condition exists. Include individual responsibilities, withdrawal distances, Firefighting, escape routes agencies to be contacted, phone numbers etc. Crew chief or supervisor must ensure all personnel involved in the operation are aware of their responsibility should an emergency arise or an abnormal condition is noted. (Abnormal conditions are not normally treated the same as an emergency). (AFMAN 91-201) (Two Parts)

A9.14. * Pre-Task Briefing: 919 SOW Form 13 has been developed to provide a standardized way of conducting safety briefings prior to commencing an explosive operation. Pre-task briefing will be accomplished using the 919 SOW Form 13 for the required task. STIFs will be maintained for operations involving explosives. Once completed, they will be maintained in a central location and accessible to all personnel who will conduct or inspect explosives operations.

A9.14.1. OIs must address who can approve the 919 SOW Form 13 if other than the Squadron CC or equivalent. (AFMAN 91-201)

A9.14.2. Detailed Instructions for completing the 919 SOW Form 13 is provided in Attachment 8 of this instruction.

A9.15. Attachments: [Attachment 1](#) is always the Glossary of References. Add attachments to further clarify the operation. (Such as illustrations, maps, tables, and diagrams). Add any document which might enhance the OI. The specific task briefing listed in paragraph A.9.12 can be addressed as an attachment.